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APPLICATION 1	NO.	FILING DATE	FIRST NAMED INVENTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,780		08/25/2003	Ryo Shinata	2003_1198A	1083
513	7590	03/21/2005		EXAMINER	
		LIND & PONACK, I	SCHWARTZ, CHRISTOPHER P		
2033 K STREET N. W. SUITE 800			ART UNIT	PAPER NUMBER	
WASHIN	WASHINGTON, DC 20006-1021			3683	
			DATE MAILED: 03/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/646,780	SHINATA, RYO				
Office Action Summary	Examiner	Art Unit				
	Christopher P. Schwartz	3683				
The MAILING DATE of this commu	unication appears on the cover sheet with					
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU  Extensions of time may be available under the provisio after SIX (6) MONTHS from the mailing date of this cor  If the period for reply specified above is less than thirty  If NO period for reply is specified above, the maximum  Failure to reply within the set or extended period for rep	NICATION.  ns of 37 CFR 1.136(a). In no event, however, may a rep nmunication.  (30) days, a reply within the statutory minimum of thirty statutory period will apply and will expire SIX (6) MONTH bly will, by statute, cause the application to become ABAI s after the mailing date of this communication, even if tim	ly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) f	iled on					
2a)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>6-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) ☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>6-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to rest	riction and/or election requirement.					
Application Papers						
9) The specification is objected to by	the Examiner.					
10)⊠ The drawing(s) filed on <u>09 December 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) includi	ng the correction is required if the drawing(s	) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected	to by the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a clair a) ☐ All b) ☐ Some * c) ☐ None of:		119(a)-(d) or (f).				
	y documents have been received.	, , , , , , , , , , , , , , , , , , ,				
<u> </u>	ty documents have been received in Ap					
	s of the priority documents have been ro ional Bureau (PCT Rule 17.2(a)).	eceived in this National Stage				
	ion for a list of the certified copies not re	mmary (PTO-413) Mail Date  Domail Patent Application (PTO-152)				
Attachment(s)		/ May Chilled Fayer				
1) Notice of References Cited (PTO-892)		mmary (PTO-413) Mail Date				
Notice of Draftsperson's Patent Drawing Review     Information Disclosure Statement(s) (PTO-1449     Paper No(s)/Mail Date	• –	Mail Date				
U.S. Patent and Trademark Office . PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Mail Date 4				

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#### **DETAILED ACTION**

Applicant's response filed 12/9/04 has been received and considered. Claims 1 have been canceled. Claims 6-11 have been added.

#### **Drawings**

The drawings that were received on 12/9/04 have been approved.

### Specification

3. The substitute specification has been entered.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miura in view of Yamaoka '113 or Yamaura et al...

Regarding claims 6 and 9 Miura in figures 7-11 a valve disc arrangement similar to applicant's that is readily apparent from the drawings. Note the second, third and fourth valve discs at 41,25 and 26.

Miura lacks a discussion of the specifics of the cross sectional areas of the ports with respect to the restrictive orifices, regardless of the angular position between the second and third valve discs. It does not however appear that the valve discs of Miura rotate given the similar structure between this device and that of applicant's,

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Note in column 3 lines 49-51 it is stated that "the number, the location and the configuration of the cut-outs 25a may be determined as desired". And in column 5 it is stated that the "ratio between the damping force in the extension and contraction strokes of the damper particularly in the range of low piston speed can be determined as desired". This damping force may be altered as discussed in col. 1—i.e. changing the configuration of the valve discs.

Yamaoka or Yamaura et al. are relied upon to show it is notoriously well known in the art to vary this arrangement by sizing and shaping the respective apertures, slots and notches in the several valve discs or a respective valve disc. See figures 2-7, 9-14 and 16-21 of Yamaoka and figures 3-6 of Yamaura et al.

One having ordinary skill in the art at the time of the invention would have found it obvious to have made the cross sectional areas of the plurality of ports greater than that of the restrictive orifices in the device of Miura, regardless of the relative angular position between the second and third valve discs, since it is notoriously well known in the art to adjust these respective parameters to control the rate of fluid flow between the respective chambers simply dependent upon the damping characteristics desired from the shock absorber. This is general taught by both references Yamaoka and Yamaura et al.

Regarding claims 7,8,10,11 in light of the discussion above these requirements are rendered obvious by the combined teachings of the references above.

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## Response to Arguments

6. Applicant's arguments filed 12/9/04 have been fully considered but they are not persuasive. The examiner maintains the position that it is notoriously well known in the art to vary or tailor the damping force to particular requirements by varying the size, shape, and respective orientations of the several orifices in the valve discs in the piston arrangements of shock absorbers. Given the references above and those cited but not applied the ordinary skilled worker in the art would have found it obvious to have made the claimed invention.

#### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Schwartz whose telephone number is 703-308-0576. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Bucci can be reached on 703-308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Cps 3/13/05